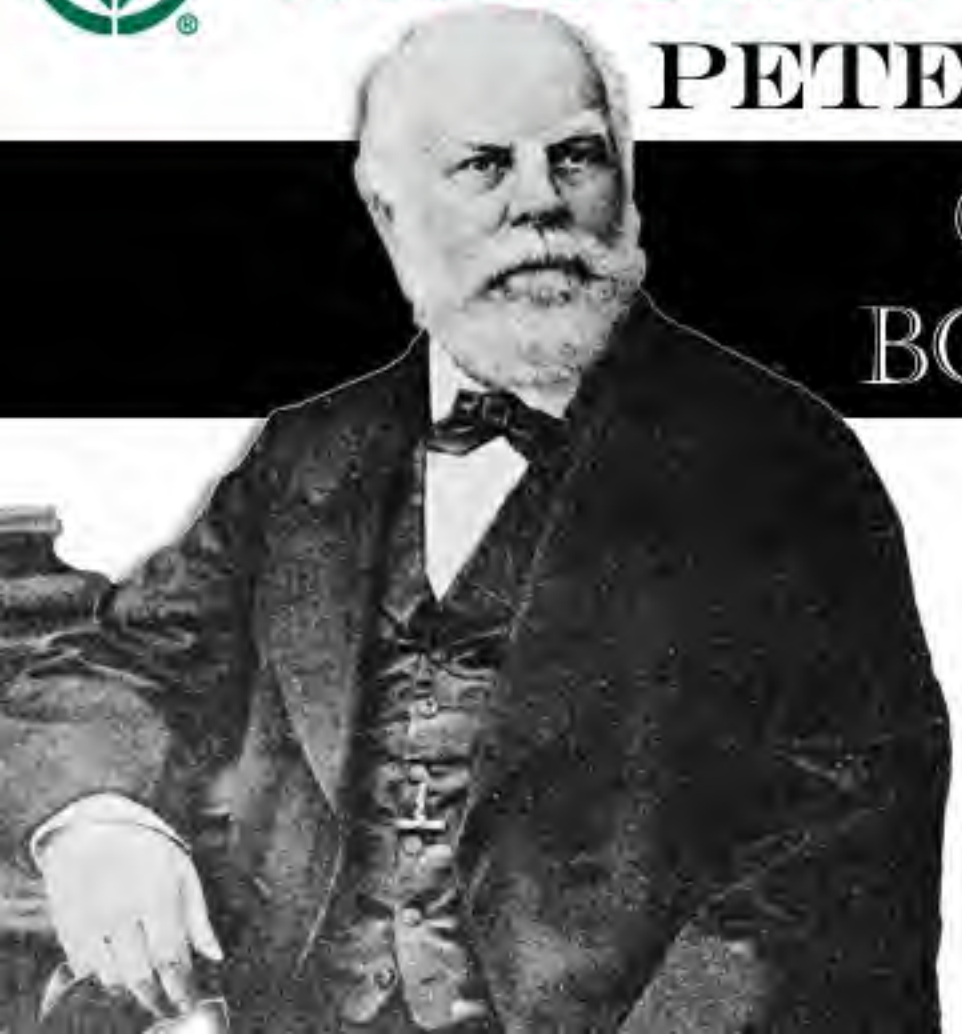
# Missouri Botanical Garden
## Peter H. Raven Library

# George Engelmann Botanical Notebooks



*Pagination Note:*
*Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

Pinus Chihuahuana Eng.
Coppermines, Wright No 1888

Sept 22 1863

X4

X4

7 3 5 6 1 2

upper

3 4 6 5 2 1

lower side

Cart.

X415

0.032

10 scales of vagina

involucre

8 scales

X10

0.031 0.034

mean 0.032

0 1 2 3 4 5 6 7 8 9 10
cm
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MISSOURI BOTANICAL GARDEN

11137

# JONES & LEITCH

# Druggists

Cor. Fifth & Market Sts. St. LOUIS, Mo.

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Pinus Chihuahuana Eng. Nov. 1862

Cones with ripe seeds

probable shape of seed.

Cone 1 3/4" long, cone scales $\frac{13}{21}$ arrangement

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16

49

P. Lanzio

Antibiotica et

Pyrenomycetes

182 - 197

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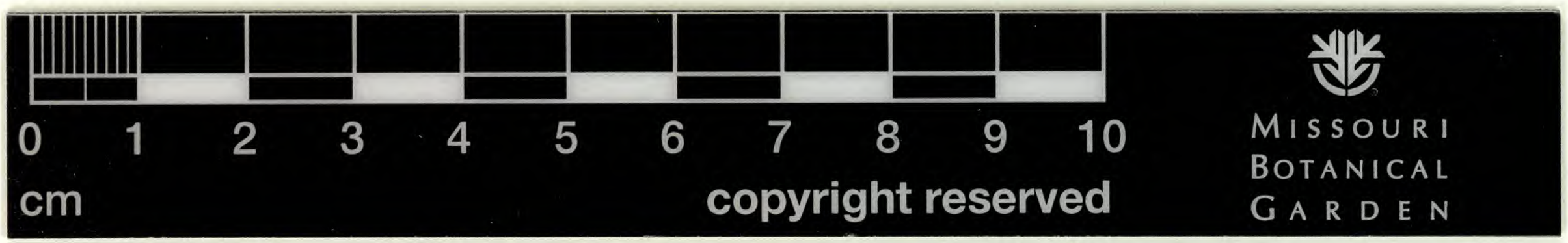
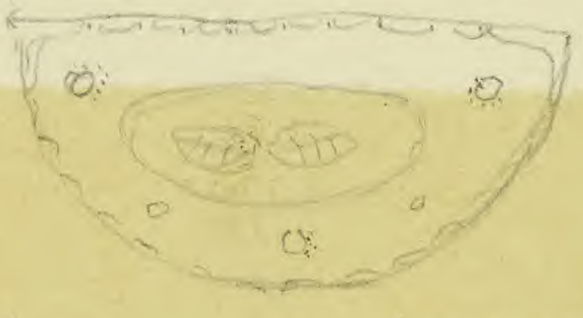
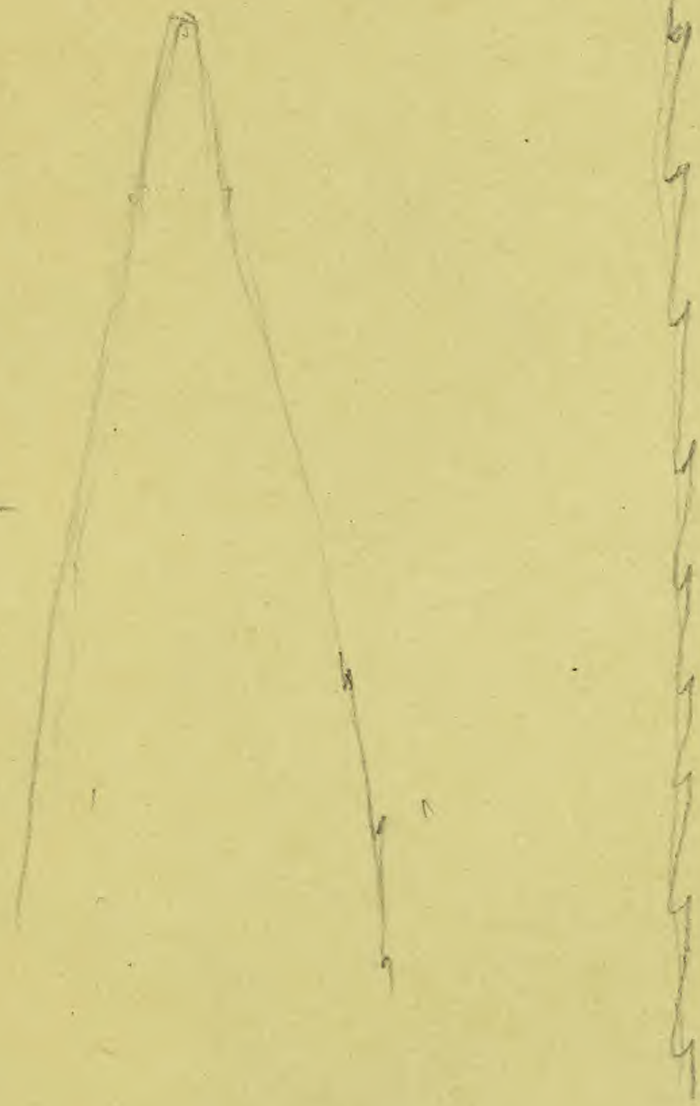


Pinus Lambertiana

Aug 7 1878

H.B. Missouri Aug 1878





×60

with 2, rarely more, with some strengthy cells, but not always, nor completely surrounding them

ASA GRAY BOTANICAL LABORATORY
Cambridge, Mass.

11140

# ARTHUR T. HOLLISTER,
## Druggist,

301 South Fifth, S. W. Cor. 5th & Myrtle, St. Louis, Mo.

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Levisso var

May 16 1879.

"Pinus Pyrenaica"

St Jean en Aragon, Pyrenees

Pétit - Hb Cosson

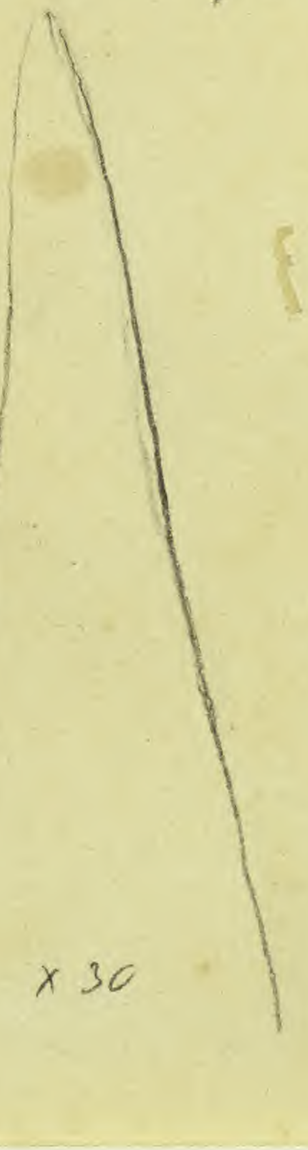
(Pyrenaica, Host Kenn is the same)

x30

Ducts oft indistinct, but
when plain, 2 principal
ones upwards calcarly and 2 or 3
below, all parenchymatous and
both more or less hypodermally,
(few or none with sheath; few
and sparing under epiderm;)
some ducts almost touching epiderm

Pyrenaica, Hb. Cosson
some ducts below
touching epid!

x 30



Montana, Pyrenees
is the same,
mostly only 1
2 primary ducts

x60

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# Henry T. Rohlfing,

APOTHECARY.

No. 2600 Laclede Ave., S. W. Cor. Jefferson Ave.

ST. LOUIS, MO.

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Pinus Austriaca
H. Bot Mus

May 1862

bract supporting ament on axis persistent
(in P. sylvestris deciduous with the ament
and adhering to it)
about 10 bracts on ament, more or
less distichous, lowest ones
smallest, strongly carinate

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cm
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DRUGGISTS,
Corner Fifth and Market Streets, St. Louis, Mo.

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Pinus Austriaca — May 1863

= H. D. Nelson. May 4th

Sive nonnia

X10

moistened

lower side

lowest anthers transition of involucral bract to Anther. scale large, pollen-sacs part small

upper

dry

wet

X10

regular anthers

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May 86

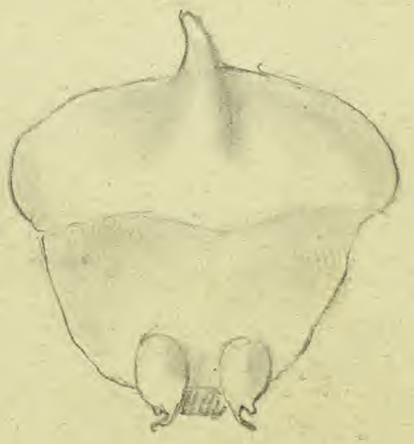
Pinus Austriaca

H. A. Wilson. May 23 1865

purple black

x 4

x 10



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cm
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MARTIN BRANNAN,

# APOTHECARY,

379, N. E. CORNER BROADWAY & O'FALLON STREET,

SIGN OF THE BLUE AND GILT MORTAR.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

cm 0 1 2 3 4 5 6 7 8 9 10
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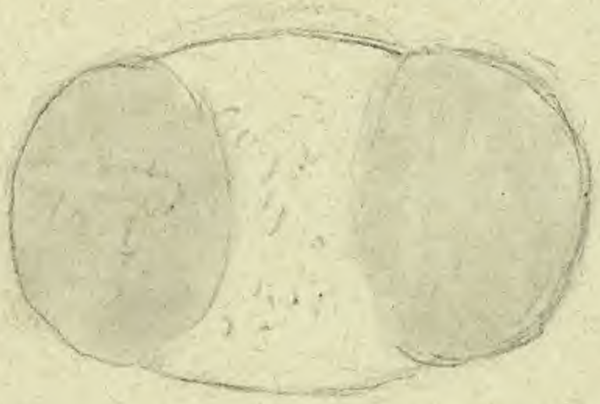
May 1863

X 415

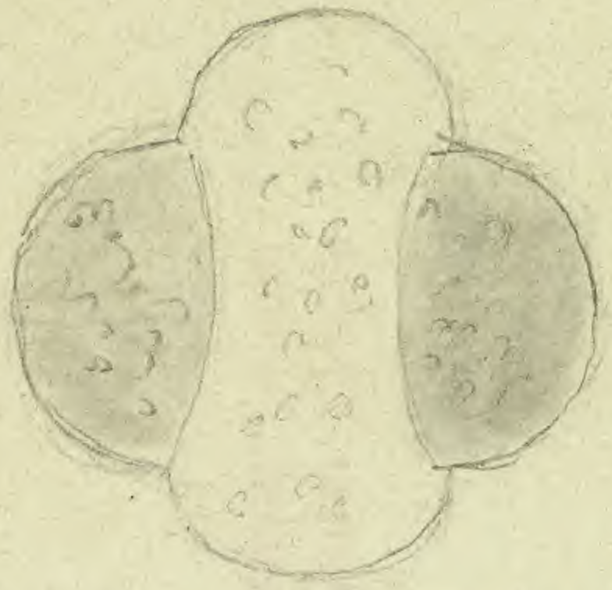
Pinus ( Austriaca
Sylvestris )

Hort Bot Monspelium
May 11 1863



m
0.041

Pollen
Soaked.



Pollen soaked too long
and probably partly
decomposed.

involucre 6-7 bracts

MUSEUM
ECOLE DE BOTANIQUE
JARDIN & VERGER
ANNEXE DE PAU
ARBORETUM

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cm 0 1 2 3 4 5 6 7 8 9 10
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Pinus Austriaca 48 May 63

Hort Brit Nursery. May 10 1863

(like nonis—) flowers open May 12

male flowers (anthers) in 16. 17. 18. 19 & 20 perpend series, with 8&8, 8&9, 9&9, 9&10 and 10&10 spirals: $\frac{1}{8}$ $\frac{2}{17}$ $\frac{1}{9}$ $\frac{2}{19}$ & $\frac{1}{10}$ arrangement.

× 6½

0,043

unusually large

0,038

unusually small

× 10

moistened

pair of leaves with the sheath with 12 pend

1 2 3 4 5 6 7 8 10 12

bract

11–13 scales of involucrum in pairs

bract

bract

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# M. W. ALEXANDER,

SOUTH-EAST CORNER OF FOURTH AND MARKET STREETS,

ST. LOUIS.

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Pinus Austriaca

Hort Botan Petropol

May 1870

usual case

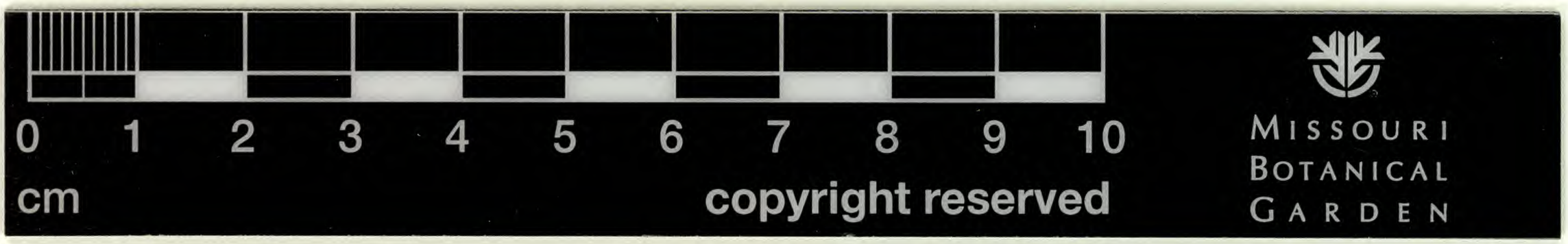
10 scales

rare, only 9 scales

Cowork Cultone scales very small

strongly carinate

9



11147

ALL THE NEW REMEDIES CONSTANTLY ON HAND

# ALEX. LEITCH,

## APOTHECARY & CHEMIST,

Cor. 4th and Olive Sts., St. Louis.

CHEMIST.

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0 cm 1 2 3 4 5 6 7 8 9 10
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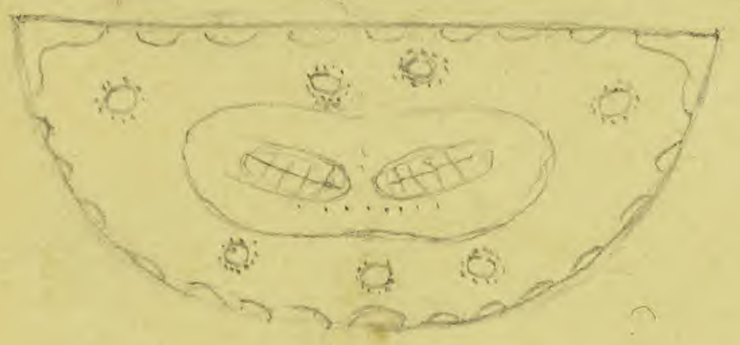
Tia austriaca
Hort Bot Messanni 2-4 1878

2-4 7 1878

x 30



leaves of some Branch

in smaller leaves 2 lateral
parenchymatous Ducts
in larger ones as many as 7
all surrounded by strengthening cells

strengthening
some cells with a
sheath

x6

L. HORTSTER'
ARTHUR

0 1 2 3 4 5 6 7 8 9 10
cm
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111 48

**ARTHUR T. HOLLISTER,**
Druggist,
301 South Fifth, S. W. Cor. 5th & Myrtle, St. Louis, Mo.

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Dec 29 '78

auxiliaria ?

cultivated Mt Carmel — Ifrah

leaves 7 inches long

x 30

auxiliaria

H. B. Kittredge

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cm
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GEO. B. FRESE & CO'S,

No. 3005 Olive Street,

Near Garrison Av. ST. LOUIS.

# Prescription Store,

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DR. GEO. ENGELMANN,

N. W. Cor. Garrison Ave. & Locust St.,

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" Pinus Laricio "
var Calabrica

Oct 6 6 1863

H. B. Naples. received 1855

old ament, adhering to specimen,

Leaves 6–7 " long

x 415

x 10

6 involucre scales apparently

" 0.033 – 0.026

Width " 0.035

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cm
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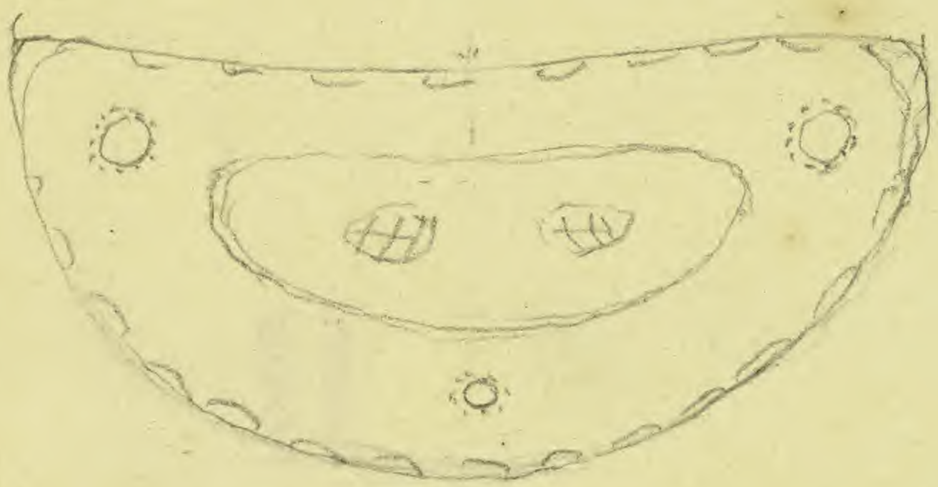
*P. laricio orientalis* May 16 1879

"( = Pyrenaica)" Cyprus. Kotschy 795

×30



2 large primary paraedigents dots only one small one below.

strongly ribbonose in sheath.

numerous bristles around, but not very strong ones

×30

×60

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48

3 tab P. Meskusii

179-81

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Rhus Merkusii

Sumatra, Jungkuhn

May 12 1879.

3 cm. Achsen mit Drüsen und strangförmig verl. Haar

0 1 2 3 4 5 6 7 8 9 10
cm
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## APOTHECARY,

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*No.* ..... *Date,* ..... *187*

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***Geo. Engelmann, M. D.,***
No. 3003 Locust Street.

cm 0 1 2 3 4 5 6 7 8 9 10
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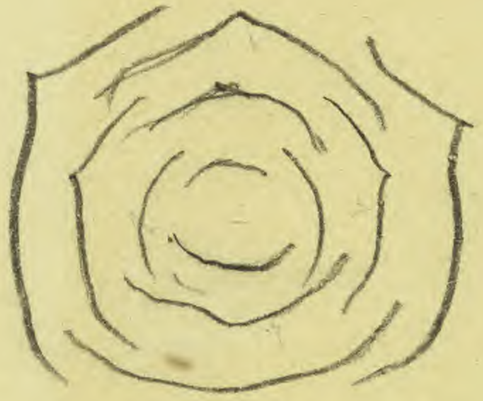
Nov 19 1879

Diam Merkusii

Sumatra Deli Langkat leg

×4

flowerbud ×4
exterior half as long
as interior



12 involucral
Scales
outer pair half as long
as inner ones

×10

Scale of anther
very young

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Apr 13 1880

Pinus Merkusii Jungh & Vr.

Bot Garden of Buitenzorg, Java

O. Beccari May 1876

x 30

x 30

x 60

2 leaves very small in sheet or closest but distinctly parenchymatous strengthening cells small but all around in eight bundles and numerous within the sheath

4 – 5 rows of stomata above

6 – 8 on back

0 1 2 3 4 5 6 7 8 9 10
cm
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# H. W. BARKHOEFER & CO.,

DRUGGISTS & PHARMACISTS,

No. 2934 Olive Street, S. E. Corner Garrison Avenue,

**ST. LOUIS, MO.**

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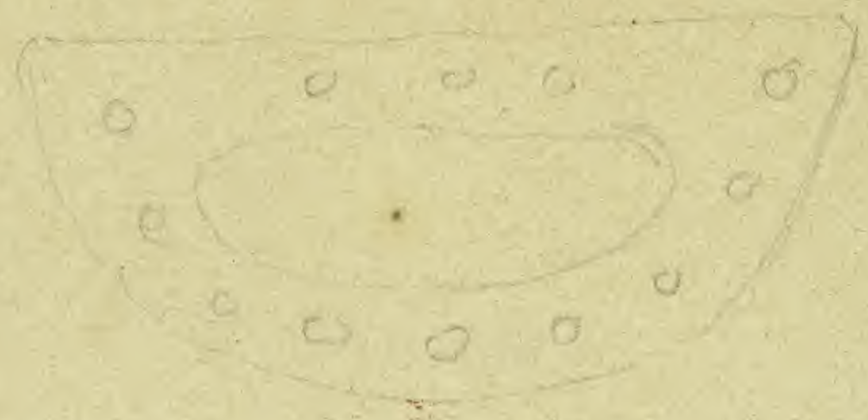
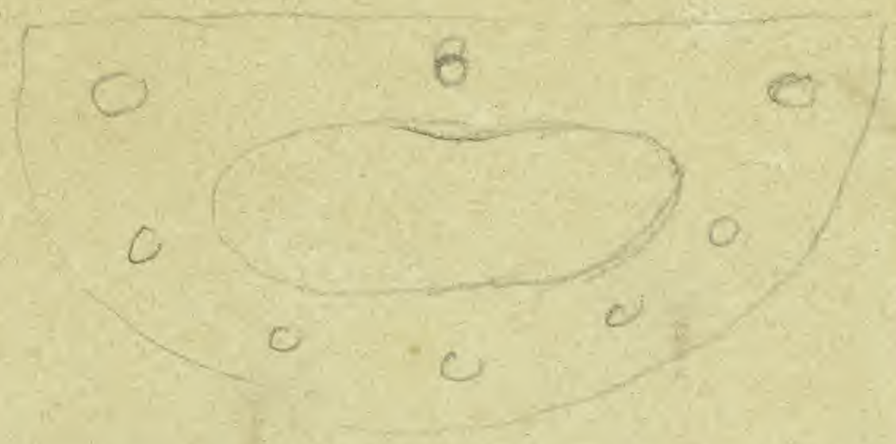
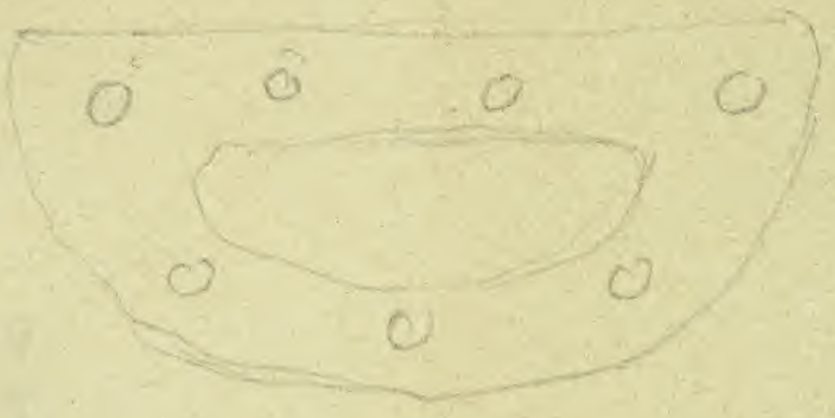
taurica Jan 29 1878
Hrd Naples.







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